

INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	RECEIVED MAR 22 2002 TECHNOLOGY CENTER R3700
Applicants: Lorenz Feddersen et al.		
Filing Date: February 11, 2002	Group: 2834 3745	

U.S. PATENT DOCUMENTS						
Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
MP	3,832,625	08/27/74	Gyugyi			
	4,251,735	02/17/81	Coleman			
	4,251,736	02/17/81	Coleman			
	4,352,155	09/28/82	Gyugyi			
	4,426,192	01/17/84	Chertok et al.			
	4,439,823	03/27/84	Gyugyi			
	4,468,725	08/28/84	Venturini			
	4,490,093	12/25/84	Chertok et al.			
	4,648,022	03/03/87	Schauder			
	4,695,736	09/22/87	Doman et al.			
	4,700,081	10/13/87	Kos et al.			
	4,703,189	10/27/87	DiValentin et al.			
	4,816,696	03/28/89	Sakayori et al.			
	4,891,744	01/02/90	Yamamoto et al.			
	4,994,684	02/19/91	Lauw et al.			
	5,029,064	07/02/91	Ball			
	5,083,039	01/21/92	Richardson et al.			
	5,132,894	07/21/92	Rozman et al.			
	5,155,375	10/13/92	Holley			
	5,172,310	12/15/92	Deam et al.			
V	5,187,427	02/16/93	Erdman			
	5,225,712	07/06/93	Erdman			
	5,278,773	01/11/94	Cousineau			
	5,289,041	02/22/94	Holley			
	5,294,876	03/15/94	Jönsson			
	5,365,424	11/15/94	Deam et al.			
	5,369,353	11/29/94	Erdman			

INFORMATION DISCLOSURE CITATION

RECEIVED

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904
Applicants: Lorenz Feddersen et al.	
Filing Date: February 11, 2002	Group: 2834 3745 TECHNOLOGY CENTER R3700

U.S. PATENT DOCUMENTS						
Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
JF	5,373,433	12/13/94	Thomas			
	5,422,826	06/06/95	Cousineau			
	5,526,252	06/11/96	Erdman			
	5,579,217	11/26/96	Deam et al.			
	5,585,708	12/17/96	Richardson et al.			
	5,594,636	01/14/97	Schauder			
	5,669,470	09/23/97	Ross			
	5,729,118	03/17/98	Yanagisawa et al.			
	5,798,631	08/25/98	Spée et al.			
	5,852,558	12/22/98	Julian et al.			
	5,852,559	12/22/98	Li			
	5,892,677	04/06/99	Chang			
	5,909,367	06/01/99	Change			
	5,943,223	08/24/99	Pond			
	5,949,672	09/07/99	Bernet			
	5,977,569	11/02/99	Li			
	6,047,104	04/04/00	Cheng			
	6,137,187	10/24/00	Mikhail et al.			

FOREIGN PATENT DOCUMENTS						
Examiner Initial*	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
JF	AU-A-90735/82	11/20/81	Australia			
	EP 0 253 294 A2	01/20/88	EPO			
	WO 92/14298	08/20/92	PCT			
	WO 93/11604	06/10/93	PCT			
	WO 96/13091	05/02/96	PCT			
	WO 96/18937	06/20/96	PCT			

INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	RECEIVED MAR 22 2002 TECHNOLOGY CENTER R3700
Applicants: Lorenz Feddersen et al.		
Filing Date: February 14, 2002	Group: 2834 3745	

FOREIGN PATENT DOCUMENTS						
Examiner Initial*	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
MA	WO 96/29774	09/26/96	PCT			
↓	WO 99/07996	02/18/99	PCT			
↓	WO 99/44276	09/02/99	PCT			

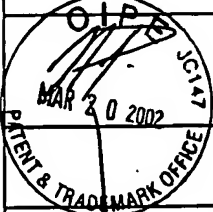
Examiner Initial*	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
MA	Mohamed A. Abbas, et al., <u>Six-Phase Voltage Source Inverter Driven Induction Motor</u> , IEEE Transactions on Industry Applications, Vol. IA-20, No. 5, September/October 1984, pages 1251-1259.
↓	Kasey W. Abbott, et al., <u>Darrieus Wind Turbine: Variable-Speed Operation</u> , Transactions of the ASAE, Vol. 27, No. 1, January/February 1984, pages 265-272.
↓	Hirofumi Akagi, et al., <u>Instantaneous Reactive Power Compensators Comprising Switching Devices without Energy Storage Components</u> , IEEE Transactions on Industry Applications, Vol. IA-20, No. 3, May/June 1984, pages 625-630.
↓	Alberto Alesina, et al., <u>Intrinsic Amplitudes and Optimum Design of Direct PWM AC-AC Converters</u> , IEEE Power Electronics Specialists Conference, 1988, pages 1284-1291.
↓	American Wind Energy Association, <u>Design Criteria Recommended Practices: Wind Energy Conversion Systems</u> , Design Criteria Subcommittee, AWEA Standards Program, March 1988.
↓	T. S. Andersen, et al., <u>Variable Speed Electrical Generator Systems for Large Wind Turbines</u> , Wind Energy Expo '82 and National Conference Proceedings, American Wind Energy Association, Amarillo, Texas, October 24-27, 1982, pages 33-37.
↓	T. S. Andersen, et al., <u>Recent Advances in Variable Speed Electrical Generator Systems for Large Wind Turbines</u> , Wind Energy Expo '83 and National Conference Proceedings, American Wind Energy Association, San Francisco, CA, October 17-19, 1983, pages 27-33.
↓	T. S. Andersen, et al., <u>Multi-Speed Electrical Generator Application to Wind Turbines</u> , AIAA/SERI Wind Energy Conference, Boulder, Colorado, April 9-11, 1980, pages 155-162.
↓	D. Arsudis, et al., <u>Sensor-less Power Control of a Double-Fed AC-Machine with Nearly Sinusoidal Line Currents</u> , EPE Aachen, 1989, pages 899-904.
↓	D. Arsudis, <u>Double-Fed Three-Phase Generator with Voltage Link Converter in the Rotor Circuit for Wind Power Systems</u> , Doctorate Dissertation, Carolo-Wilhelmina Technical University, January 12, 1989.
↓	Robert S. Barton, <u>Variable Speed Generator Application on the MOD-5A 7.3 MW Wind Turbine Generator</u> , DOE/NASA Horizontal-Axis Wind Turbine Technology Workshop, May 8-10, 1994, Cleveland, Ohio, Collected Papers on Wind Turbine Technology, NASA, May 1995, pages 199-210.
↓	Robert S. Barton, et al., <u>Control System Design for the MOD-5A 7.3 MW Wind Turbine Generator</u> , DOE/NASA Horizontal-Axis Wind Turbine Technology Workshop, May 8-10, 1984, Cleveland, Ohio, pages 157-174.

INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

RECEIVED

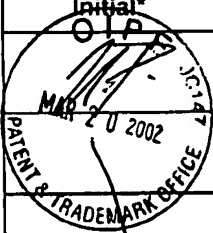
Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	MAR 22 2002
Applicants: Lorenz Feddersen et al.		
Filing Date: February 11, 2002	Group: 2834 - 3745 TECHNOLOGY CENTER R3700	

Examiner Initial*	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	Robert S. Barton, et al., <u>Conceptual Design of the 6 MW MOD-5A Wind Turbine Generator</u> , Fifth Biennial Wind Energy Conference & Workshop (WWV), Washington, DC, October 5-7, 1981, pages 157-168.
	R. R. Beasant, et al., <u>An Approach to Realization of a High Power Venturini Converter</u> , 1 IEEE Power Electronics Specialists Conference, June 11, 1990, pages 291-297.
	Sandro Bertini, et al., <u>AC/DC/AC High Voltage Traction Drives with Quasi-Zero Reactive Power Demand</u> , IEEE Transactions on Power Electronics, Vol. 8, No. 4, October 1993, pages 632-638.
	M. J. Birks, <u>Directly Coupled, Slow Speed Wind Turbine Alternators</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbine with Constant and Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 15-24.
	Boeing Engineering and Construction, <u>MOD-5B Wind Turbine System Concept and Preliminary Design Report</u> , Vol. 1, Executive Summary, September 1982.
	Boeing Engineering and Construction, <u>MOD-5B Wind Turbine System Concept and Preliminary Design Report</u> , Vol. 2, Detailed Report, September 1982.
	D. Boldin, et al., <u>Induction Generators Adapted to Variable Speed Operated Wind Turbines</u> , Proceedings of the European Wind Energy Conference, October 22-26, 1984, Hamburg, Germany, pages 542-547.
	Bimal K. Bose, <u>Recent Advances in Power Electronics</u> , IEEE, 1990, pages 829-838.
	Bimal K. Bose, <u>Power Electronics and AC Drives</u> , Prentice-Hall, 1986.
	E. A. Bossanyi, et al., <u>Cost Effectiveness of Variable Speed Operation for Wind Turbines</u> , Proceedings of the 10 th British Wind Energy Association Conference, London, March 22-24, 1988, pages 431-438.
	M. Braun, <u>Selbstgeführter Netzstromrichter mit Spannungsausgang und geringer Netzrückwirkung</u> , Siemens Forsch. - u. Entwickl.-Ber. Bd. 16 (1987) Nr. 2, pages 55-58.
	Nándor Burány, <u>Safe Control of Four-Quadrant Switches</u> , 1 IEEE Industrial Application Society Annual Meeting, October 1-5, 1989, pages 1190-1194.
	Alfred Busse, et al., <u>Multiloop Control of a Unity Power Factor Fast Switching AC to DC Converter</u> , PESC '82, pages 171-179.
	S. C. Caldwell, et al., <u>The Frequency Converter Approach to a Variable Speed, Constant Frequency System</u> , AIEE Conference Paper #60-1076, AIEE Pacific General Meeting, San Diego, CA, August 8-12, 1960.
	N. G. Calvert, <u>Windpower Principles; Their Application on the Small Scale</u> , Charles Griffin & Company Ltd, 1981, pages 115-120.
	R. Carli, <u>Electricity Generation at Fixed Frequency with Variable Speed WECs</u> , Proceedings of the European Wind Energy Conference, October 22-26, 1984, Hamburg, Germany, pages 548-552.
	P. W. Carlin, <u>Analysis of Variable Speed Operation of Horizontal Axis Wind Turbines</u> , Seventh ASME Wind Energy Symposium, 1988, page 195.

INFORMATION DISCLOSURE CITATION



RECEIVED

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904
Applicants: Lorenz Feddersen et al.	MAR 22 2002
Filing Date: February 11, 2002	Group: 2834 3745 TECHNOLOGY CENTER R3700

Examiner Initial*	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	O. Carlson, et al., <u>Variable Speed AC-Drive System with Pitch or Yaw Control</u> , Proceedings of Windpower '87, San Francisco, CA, October 5-8, 1987, pages 60-65.
	O. Carlson, et al., <u>Variable Speed AC-Generators Applied in WECs</u> , Proceedings of the European Wind Energy Association Conference and Exhibition, Vol. 1, October 7-9, 1986, pages 685-690.
	Domenico Casadei, et al., <u>A General Approach for the Analysis of the Input Power Quality in Matrix Converters</u> , 2 IEEE Power Electronics Specialists Conference, June 21-27, 1996, pages 1128-1134.
	Domenico Casadei, et al., <u>Performance of SVM Controlled Matrix Converter with Input and Output Unbalanced Conditions</u> , 2 EPE 6 th European Conference on Power Electronics and Applications, September 19-21, 1995, pages 628-633.
	Domenico Casadei, et al., <u>Reduction of the Input Current Harmonic Content in Matrix Converter Under Input/Output Unbalance</u> , 1 IEEE International Conference on Industrial Electronics, Control and Instrumentation, November 9-14, 1995, pages 457-462.
	Domenico Casadei, et al., <u>The Use of Matrix Converters in Direct Torque Control of Induction Machines</u> , 24 th Annual Conference of the IEEE Industrial Electronics Society, Vol. 2/4, August 31-September 4, 1998, pages 744-749.
	Peter Caselitz, et al., <u>Windenergieanlagen im Verbundbetrieb: Kopplung und Regelung von anreihbarvariablen Windenergieanlagen mit Gleichstrom-Sammelschiene</u> , December 1985.
	C. C. Chan, et al., <u>An Effective Method for Rotor Resistance Identification for High-Performance Induction Motor Vector Control</u> , IEEE Transactions on Industrial Electronics, Vol. 37, No. 6, December 1990, pages 477-482.
	Wang Cheng-xu, et al., <u>The Variable Speed and Constant Frequency Generating System with Slip Frequency Excitation and Computer Control</u> , Conference Publication, European Wind Energy Conference and Exhibition, 1989, pages 795-798.
	Hirota Chikaraishi, et al., <u>A Variable Speed Control of the Induction Generator without Speed Sensor for Wind Generation</u> , T. IEE Japan, Vol. 110-D, No. 6, 1990, pages 664-672.
	Jung G. Cho, et al., <u>Soft Switched Matrix Converter for High Frequency Direct AC-to-AC Power Conversion</u> , Dept. of Electrical Engineering, Korea Advanced Institute of Science and Technology, 1991, pages 196-201.
	Edgar Conley P.E., <u>Variable Speed Wind Turbine Control System</u> , Proceedings of the 16 th Intersociety Energy Conversion Engineering Conference, Atlanta, Georgia, Vol. 3, August 9-14, 1981, pages 2243-2247.
	J. A. N. de Bonte, <u>The Dutch Autonomous Wind Diesel System</u> , Proceedings of the European Wind Energy Conference, October 22-26, 1984, Hamburg, Germany, pages 685-689.
	M. Depenbrock, <u>Direct Self-Control (DSC) of Inverter-Fed Induction Machine</u> , IEEE Transactions on Power Electronics, Vol. 3, No. 4, October 1988, pages 420-429.
	Von Rudolf Dirr, et al., <u>Neuartige elektronische Regeleinrichtungen für doppeltgespeiste Asynchronmotoren großer Leistung</u> , Siemens-Zeitschrift, 45, 1971, Heft 5, pages 362-367.


INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	RECEIVED MAR 22 2002 TECHNOLOGY CENTER R3700
Applicants: Lorenz Feddersen et al.		
Filing Date: February 11, 2002	Group: 2834 3745	

Examiner Onitai	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	Eugene DiValentin, <u>The Application of Broad Range Variable Speed for Wind Turbine Enhancement</u> , Proceedings of the European Wind Energy Association Conference and Exhibition, Vol. 1, October 7-9, 1986, pages 669-674.
	Juan W. Dixon, et al., <u>Characteristics of a Controlled-Current PWM Rectifier-Inverter Link</u> , IEEE Transactions on Industry Applications, Vol. IA-23, No. 6, November/December 1987, pages 1022-1028.
	Juan W. Dixon, et al., <u>Indirect Current Control of a Unity Power Factor Sinusoidal Current Boost Type Three-Phase Rectifier</u> , IEEE Transactions on Industrial Electronics, Vol. 35, No. 4, November 1988, pages 508-515.
	Glidden S. Doman, <u>Applications of Broad Range Variable Speed Generators to Large Horizontal Axis Wind Turbines</u> , Proceedings of Windpower '85, San Francisco, CA, August 27-30, 1985, pages 177-182.
	Glidden S. Doman, <u>Economic Gains from More Complete System Integration of Variable Speed Generators and Large Horizontal Axis Wind Turbines</u> , Proceedings of the 20 th Intersociety Energy Conversion Engineering Conference, Vol. 3, 1985, pages 3.669-3.674.
	Richard C. Dorf, <u>The Electrical Engineering Handbook</u> , 2 nd Edition, CRC Press LLC, 1997, pages 83-84.
	David M. Eggleston, et al., <u>Wind Turbine Engineering Design</u> , Van Nostrand Reinhold, 1987.
	Electrotek Concepts, Inc., <u>Testing Requirements for Variable-Speed Generating Technology for Wind Turbine Applications</u> , Electric Power Research Institute, May 1986.
	P. Enjeti, et al., <u>A Critical Evaluation of Harmonics Generated by Forced Commutated Cycloconverters (FFC's) under Unbalance</u> , IEEE Industrial Application Society Annual Meeting, 1990, pages 1162-1168.
	J. Ernst, <u>Control of a Variable Speed Wind Energy Converter with a Synchronous Generator and a D.C. Link Converter</u> , Proceedings of the European Wind Energy Conference, October 22-26, 1984, Hamburg, Germany, pages 606-611.
	J. Ernst, et al., <u>Optimization of the Energy Output of Variable Speed Wind Turbines</u> , Proceedings of Windpower '85, San Francisco, CA, August 27-30, 1985, pages 183-188.
	H. Ertl, et al., <u>Analysis of Different Current Control Concepts for Forced Commutated Rectifier (FCR)</u> , PCI Proceedings, June 1986, pages 195-217.
	A. A. Fardoun, et al., <u>A Variable-Speed, Direct-Drive Transmission Wind Power Plant</u> , Proceedings of Windpower '93, San Francisco, CA, July 12-16, 1993, pages 134-141.
E. F. Fuchs, et al., <u>Permanent-Magnet Machines for Operation with Large Speed Variations</u> , Proceedings of Windpower '92, Seattle, Washington, October 19-23, 1992, pages 291-299.	
	C. Gallo, et al., <u>Design and Dynamic Simulation of a Fixed Pitch 56 kW Wind Turbine Drive Train with a Continuously Variable Transmission</u> , NASA, March 1986.

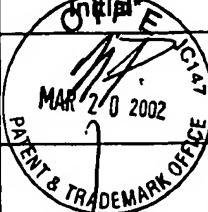
INFORMATION DISCLOSURE CITATION

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	RECEIVED MAR 22 2002 TECHNOLOGY CENTER R3700
Applicants: Lorenz Feddersen et al.		
Filing Date: February 11, 2002	Group: 2834 - 3745	

Examiner	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	Luis J. Garcés, <u>Parameter Adaption for the Speed-Controlled Static AC Drive with a Squirrel-Cage Induction Motor</u> , IEEE Transactions on Industry Applications, Vol. IA-16, No. 2, March/April 1980, pages 173-178.
	P. Gardner, <u>Power Quality</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 25-35.
	General Electric Company, "Conceptual Design Study for the Wind Turbine Hydro Pump-Back System", <u>Wind Power Plants for Electric Utility Systems in New York State</u> , Niagara Mohawk Power Corporation, Final Report, Vol. 2, October 1980.
	Edward W. Golding, <u>The Generation of Electricity by Wind Power</u> , Philosophical Library, 1955, pages 219-225.
	Anders Grauers, <u>Electric Efficiency of a Variable Speed Generator System</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 103-111.
	Laszlo Gyugyi, <u>Reactive Power Generation and Control by Thyristor Circuits</u> , IEEE Transactions on Industry Applications, Vol. IA-15, No. 5, September/October 1979, pages 521-532.
	Thomas G. Habetler, et al., <u>Angle Controlled Current Regulated Rectifiers for AC/AC Converters</u> , IEEE Transactions on Power Electronics, Vol. 6, No. 3, July 1991, pages 463-469.
	Thomas G. Habetler, et al., <u>Control Strategies for Direct Torque Control Using Discrete Pulse Modulation</u> , IEEE Transactions on Industry Applications, Vol. 27, No. 5, September/October 1991, pages 893-901.
	B. F. Habron, et al., <u>Wind-Turbine Power Improvement with Modern Airfoil Sections and Multiple-Speed Generators</u> , AIAA/SERI Wind Energy Conference, Boulder, Colorado, April 9-11, 1980, pages 130-147.
	Karl-Erik Hallenius, <u>Elektriska Maskiner</u> , Bröderna Ekstrands Tryckeri AB Lund, 1984.
	Fumio Harashima, et al., <u>Multimicroprocessor-Based Control System for Quick Response Induction Motor Drive</u> , IEEE Transactions on Industry Applications, Vol. IA-21, No. 4, May/June 1985, pages 602-608.
	C. D. Harbourt, <u>Pulse Width Modulated DC Link Converter Development</u> , Report Number AFWAL-TR-83-2046, Aero Propulsion Laboratory, Air Force Wright Aeronautical Lab, Wright -Patterson Air Force Base, Ohio, June 1983.
	Siegfried Heier, <u>Grid Influence by Wind Energy Converters</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 37-50.
	H. L. Hey, et al., <u>A New Soft-Switching AC-AC Matrix Converter, with a Single Activated Commutation Auxiliary Circuit</u> , 2 IEEE Power Electronics Conference, June 18-22, 1995, pages 965-970.
✓	Eric N. Hinrichsen, <u>Variable Rotor Speed for Wind Turbines: Objectives and Issues</u> , Proceedings of Windpower '85, San Francisco, CA, August 27-30, 1985, pages 164-170.

INFORMATION DISCLOSURE CITATION

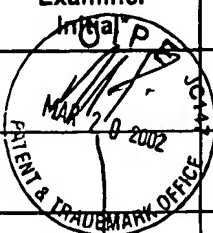
Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	RECEIVED MAR 22 2002 TECHNOLOGY CENTER B3700
Applicants: Lorenz Feddersen et al.		
Filing Date: February 11, 2002	Group: 2854 3745	

Examiner	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	M. J. Hoeijmakers, <u>Synchronous Machine with Rectifier for Wind Turbines</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 51-61.
	W. E. Holley, et al., <u>Optimal Quasistatic Control of Variable Speed Wind Turbines</u> , European Wind Energy Conference and Exhibition, July 10-13, 1989, pages 341-344.
	D. G. Holmes, et al., <u>Implementation of a Controlled Rectifier Using AC-AC Matrix Converter Theory</u> , IEEE Power Electronics Specialists Conference, 1989, pages 353-359.
	G. Huß, et al., <u>The Effect of Variable Rotor Speed on the Design and Operation of a WEC</u> , Proceedings of the European Wind Energy Conference, October 22-26, 1984, Hamburg, Germany, pages 308-313.
	L. Huber, et al., <u>Space Vector Modulated Three-Phase to Three-Phase Matrix Converter with Input Power Factor Correction</u> , 31 IEEE transactions on industry applications, No. 6, November / December 1995, pages 1234-1246.
	L. Huber, et al., <u>Space Vector Modulation with Unity Input Power Factor for Forced Commutated Cycloconverters</u> , IEEE Industrial Application Society Annual Meeting, 1991, pages 1032-1041.
	V. Daniel Hunt, <u>Windpower: a Handbook on Wind Energy Conversion Systems</u> , Van Nostrand Reinhold Company, 1981.
	Maria G. Ioannides, et al., <u>Generalized Optimization Slip Power Recovery Drives</u> , IEEE Transactions on Energy Conversion, Vol. 5, No. 1, March 1990, pages 91-95.
	Rainer Jäger, <u>Leistungselektronik: Grundlagen und Anwendungen</u> , pages 308-309.
	N. Jenkins, <u>Electrical Variable Speed Operation of Horizontal Axis Wind Turbine Generators</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 63-68.
	N. Jenkins, <u>IEA Meeting at Chalmers University Gothenburg, 7-8 October 1991, Notes on Final Discussion</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 153-154.
	Yorito Jifuku, et al., <u>GTO Inverter for Adjustable Speed AC Motor Drive System</u> , IPEC - Tokyo '83, pages 418-425.
	William R. Johnson, <u>Design, Construction and Early Operation of the 3.2-MW MOD-5B Wind Turbine</u> , Proceedings of Windpower '87, San Francisco, CA, October 5-8, 1987, pages 1-6.
	S. Kawamura, et al., <u>The Operating Characteristics of Mechanical Governor for a Variable-Speed Wind Turbine Generator</u> , Proceedings of the European Community Wind Energy Conference, Madrid, Spain, September 10-14, 1990, pages 547-551.
	M. P. Kazmierkowski, et al., <u>Novel Space Vector Based Current Controllers for PWM-Inverters</u> , IEEE, 1989, pages 657-664.
	Y. Kim, et al., <u>Control of Force-Commutated Direct Frequency Changers</u> , IEEE Industrial Application Society Annual Meeting, 1990, pages 1163-1170.

INFORMATION DISCLOSURE CITATION

RECEIVED

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904
Applicants: Lorenz Feddersen et al.	MAR 22 2002
Filing Date: February 11, 2002	Group: 2834 3745 TECHNOLOGY CENTER B3700

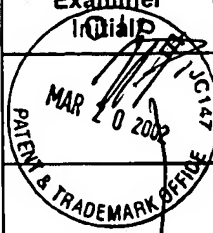
Examiner	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	Y. Kim, et al., <u>New Modulation Methods for Force-Commutated Direct Frequency Changers</u> , IEEE Power Electronics Specialists Conference, 1989, pages 798-809.
	C. T. Kleiner, <u>Advanced Semiconductor Technology for Alternative Energy Sources - D-C to A-C Inverters</u> , Alternative Energy Sources Symposium, Miami Beach, Florida, December 5-7, 1977.
	H. Kohlmeier, et al., <u>Control of a Double Voltage Inverter System Coupling a Three Phase Mains with an AC-Drive</u> , IEEE/IAS Annual Meeting Conference Rec., 1987, pages 593-599.
	H. Kohlmeier, et al., <u>GTO-Pulse Inverters with On-Line Optimized Pulse Patterns for Current Control</u> , pages 668-671.
	H. Kohlmeier, et al., <u>Highly Dynamic Four-Quadrant AC Motor Drive with Improved Power Factor and On-Line Optimized Pulse Pattern with PROMC</u> , IEEE Transactions on Industry Applications, Vol. IA-23, No. 6, November/December 1987, pages 1001-1009.
	Ulrik Krabbe, <u>The Electric Power Equipment for the Windmill in Tvind</u> , Report No. AE-R-015, Laboratory of Electric Circuits and Machines, 1979.
	Ashok B. Kulkarni, et al., <u>Transient Tests on a Voltage-Regulated Controlled-Current PWM Converter</u> , IEEE Transactions on Industrial Electronics, Vol. IE-34, No. 3, August 1987, pages 319-324.
	B. H. Kwon, et al., <u>Novel Commutation Technique of AC-AC Converters</u> , 145 IEE Proceedings on Electronic Power Application, July 1998, pages 295-300.
	T. H. Lauw, <u>AC-DC-AC Conversion System for Mains-Connected Windpower Generation</u> , Second ASME Wind Energy Symposium, 6 th Annual Energy-Sources Technology Conference and Exhibition, Houston, Texas, January 30- February 3, 1983, pages 193-204.
	S. Lefebvre, et al., <u>Control of a Variable-Speed Wind Turbine Generator</u> , Proceedings of the Ninth Biennial Congress of the International Solar Energy Society, Vol. 4, Pergamon Press, pages 2147-2151.
	Werner Leonhard, et al., <u>Betriebsverhalten von Windenergieanlagen</u> , Bundesministerium für Forschung und Technologie, July 1984.
	Seymour Lieblein, Ed., <u>Large Wind Turbine Design Characteristics and R&D Requirements</u> , NASA Conference Publication 2106, DOE Publication CONF-7904111, April 24-26, 1979.
	Barry Liebowitz, <u>Wind Technology Assessment</u> , New York State Energy Research and Development Authority, July 1991.
	Thomas A. Lipo, <u>Investigation of Variable Speed for Wind Turbine Power Generation</u> .

Thomas A. Lipo, Recent Progress in the Development of Solid State AC Motor Drives, Proceedings of Electric Energy Conference, Adelaide, Australia, October 6-9, 1987.

James P. Lyons Jr., et al., The Control of Variable-Speed Wind Turbine Generators, Proceedings of the 22nd IEEE Conference on Decision and Control, Vol. 3, San Antonio, Texas, December 16, 1983, pages 1417-1421.

INFORMATION DISCLOSURE CITATION


Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	RECEIVED
Applicants: Lorenz Feddersen et al.		
Filing Date: February 11, 2002	Group: 2834 3745	MAR 22 2002

Examiner Initials	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	Luigi Malesani, et al., <u>Three-Phase AC/DC PWM Converter with Sinusoidal AC Currents and Minimum Filter Requirements</u> , IEEE Transactions on Industry Applications, Vol. IA-23, No. 1, January/February 1987, pages 71-77.
	J. F. Manwell, et al., <u>Electrical/Mechanical Options for Variable Speed Wind Turbines</u> , Solar Energy, Vol. 46, No. 1, 1991, pages 41-51.
	J. F. Manwell, et al., <u>Review of Hardware Options for Variable Speed Wind Turbines</u> , Proceedings of the 1989 Annual Conference of the American Solar Energy Society, Denver, Colorado, June 19-22, 1989, pages 37-47.
	G. D. Marques, <u>Synthesis of Active and Reactive Power Controllers for the Slip Power Recovery Drive</u> , EPE Aachen, 1989, pages 829-833.
	H. Matsumiya, et al., <u>A 15 Meter Diameter Variable-Speed HAWT: A Research Machine of Japanese National SUNSHINE Project</u> , Proceedings of Windpower '88, Honolulu, Hawaii, September 18-22, 1988, pages 135-144.
	Takayoshi Matsuo, et al., <u>A Rotor Parameter Identification Scheme for Vector-Controlled Induction Motor Drives</u> , IEEE Transactions on Industry Applications, Vol. IA-21, No. 4, May/June 1985, pages 624-632.
	Tomoyuki Matsuzaka, et al., <u>A Variable Speed Wind Generating System and Its Test Results</u> , Conference Publication, European Wind Energy Conference and Exhibition, 1989, pages 608-612.
	G. McNerney, <u>The Effect of Variable Speed Operation on the Cost of Energy of a WECS</u> , Ninth ASME Wind Energy Symposium, 13 th Annual Energy-Sources Technology Conference and Exhibition, New Orleans, Louisiana, January 14-18, 1990, pages 201-203.
	G. McNerney, et al., <u>The EPRI-Utility-USW Advanced Wind Turbine Program - 1990 Update</u> , Proceedings of Windpower '90, Washington, DC, September 24-28, 1990, pages 79-84.
	T. J. E. Miller, <u>Reactive Power Control in Electric Systems</u> , John Wiley & Sons, 1982.
	Ned Mohan, et al., <u>Power Electronics: Converters, Applications, and Design</u> , John Wiley & Sons, 1989, Chapters 16 and 17, pages 386-431.
	Luis T. Moran, et al., <u>Analysis and Design of a Novel 3-ϕ Solid-State Power Factor Compensator and Harmonic Suppressor System</u> , IEEE Transactions on Industry Applications, Vol. 25, No. 4, July/August 1989, pages 609-619.
	Luis T. Moran, et al., <u>Analysis and Design of a Three-Phase Current Source Solid-State Var Compensator</u> , IEEE Transactions on Industry Applications, Vol. 25, No. 2, March/April 1989, pages 356-365.
	Luis T. Moran, et al., <u>Analysis and Design of a Three-Phase Synchronous Solid-State Var Compensator</u> , IEEE Transactions on Industry Applications, Vol. 25, No. 4, July/August 1989, pages 598-608.
	Eduard Muljadi, <u>Series Compensated PWM Inverter with Battery Supply Applied to an Isolated Induction Generator</u> , Ph.D. Thesis, University of Wisconsin-Madison, 1987.

INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011
RECEIVED

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	MAR 22 2002
Applicants: Lorenz Feddersen et al.		TECHNOLOGY CENTER B3700
Filing Date: February 11, 2002	Group: 2834 3745	

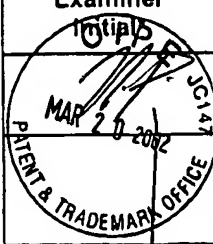
Examiner	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	G. A. Mutone, et al., <u>Hybrid Computer Simulation of Variable Speed Wind Turbine Generator</u> , Proceedings of the 14 th Annual Pittsburgh Conference, University of Pittsburgh, April 21-22, 1983, Instrument Society of America, pages 159-165.
	D. O. Neascu, <u>Theory and Design of a Space-Vector Modulator for AC-AC Matrix Converter</u> , 5 European Transactions on Electrical Power Engineering, No. 4, July / August 1995, pages 285-290.
	Charles L. Neft, et al., <u>Theory and Design of a 30-HP Matrix Converter</u> , IEEE Industry Applications Society Annual Meeting, 1988, pages 934-939.
	W. R. Nickols, et al., <u>Development of the Aldborough Wind Turbine</u> , Third International Conference on Future Energy Concepts, London, England, January 27-30, 1981, pages 277-281.
	P. Nielsen, et al., <u>Evaluation of the Input Current Quality by Three Different Modulation Strategies for SVM Controlled Matrix Converters with Input Voltage Unbalance</u> , 2 IEEE International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth, January 1996, pages 794-800.
	P. Nielsen, et al., <u>Novel Solutions for Protection of Matrix Converter to Three Phase Induction Machine</u> , IEEE Industry Applications Conference, 1997, pages 1447-1454.
	P. Nielsen, et al., <u>Space Vector Modulated Matrix Converter with Minimized Number of Switchings and a Feedforward Compensation of Input Voltage Unbalance</u> , IEEE International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth, Vol. 2, January 1996, pages 833-839.
	P. Nielsen, <u>The Matrix Converter for an Induction Motor Drive</u> , Ph.D. Thesis, Aalborg University, August 1996.
	O. Niermeyer, <u>AC-Motor Drive with Regenerative Braking and Reduced Supply Line Distortion</u> , EPE Aachen, 1989, pages 1021-1026.
	D. W. Novotny, <u>A Comparative Study of Variable Frequency Drives for Energy Conservation Applications</u> , University of Wisconsin-Madison, April 1981.
	Toshiaki Okuyama, et al., <u>High Performance AC Motor Speed Control System Using GTO Converters</u> , IPEC- Tokyo '83, pages 720-731.
	Boon Teck Ooi, et al., <u>Induction-Generator/Synchronous-Condenser System for Wind-Turbine Power</u> , Proc. IEE, Vol. 126, No. 1, January 1979, pages 69-74.
	Boon Teck Ooi, et al., <u>An Integrated AC Drive System Using a Controlled-Current PWM Rectifier / Inverter Link</u> , IEEE Transactions on Power Electronics, Vol. 3, No. 1, January 1988, pages 64-71.
	Boon Teck Ooi, et al., <u>A Three-Phase Controlled-Current PWM Converter with Leading Power Factor</u> , IEEE Transactions on Industry Applications, Vol. IA-23, No. 1, January/February 1987, pages 78-84.
	J. Oyama, et al., <u>Displacement Angle Control of Matrix Converter</u> , 2 IEEE Power Electronic Specialists Conference, June 22-27, 1997, pages 1033-1039.
	J. Oyama, et al., <u>Effect of PWM Pulse Number on Matrix Converter Characteristics</u> , 2 IEEE Power Electronics Specialists Conference, June 23-27, 1996, pages 1306-1311.
	Gerald L. Park, et al., <u>Measured Interconnected Behavior of Wind Turbine Inverters</u> , IEEE Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 10, October 1984, pages 3074-3079.

INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

RECEIVED

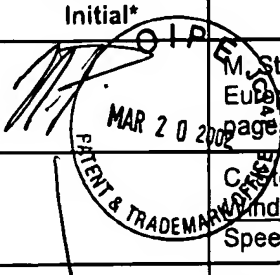
Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904	MAR 22 2002
Applicants: Lorenz Feddersen et al.		
Filing Date: February 11, 2002	Group: 2834 3745 TECHNOLOGY CENTER R9700	

Examiner	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	K. N. Pavithran, et al., <u>Studies on Inverter-Fed Five-Phase Induction Motor Drive</u> , IEEE Transactions on Power Electronics, Vol. 3, No. 2, April 1988, pages 224-235.
	J. T. G. Pierik, et al., <u>A Variable Speed System with Integral Control for Wind Turbines (IRFLET): Design of the Test-Rig</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 69-80.
	G. Raina, et al., <u>Variable Speed Wind Energy Conversion Using Synchronous Machine</u> , IEEE Transactions on Aerospace and Electronic Systems, Vol. AES-21, No. 1, January 1985, pages 100-105.
	G. Raina, et al., <u>Wind Energy Conversion Using a Self-Excited Induction Generator</u> , IEEE Transactions on Power Apparatus and Systems, Vol. PAS-102, No. 12, December 1983, pages 3933-3936.
	Mark E. Ralph, <u>Control of the Variable Speed Generator on the Sandia 34-Metre Vertical Axis Wind Turbine</u> , Proceedings of Windpower '89, San Francisco, CA, September 24-27, 1989, pages 99-104.
	Mark E. Ralph, <u>Design and Control of a Variable-Speed Generator System for a WECS</u> , Proceedings of Windpower '87, San Francisco, October 5-8, 1987, pages 55-59.
	T. W. Reddoch, et al., <u>A Conceptual Framework for Evaluating Variable Speed Generator Options for Wind Energy Applications</u> , Collected Papers on Wind Turbine Technology, NASA, May 1995, pages 185-190.
	Von Theodor Salzmann, <u>Direktumrichter und Regelkonzept für getriebelosen Antrieb von Rohrmühlen</u> , Siemens-Zeitschrift 51, Heft 5, 1977, pages 416-422.
	Noriaki Sato, <u>Induction Generator Connected to a Utility Network through a Static Frequency Changer</u> , pages 609-616.
	William C. Schmidt, et al., <u>Evaluating Variable Speed Generating Systems on the DOE/NASA MOD-0 Wind Turbine</u> , Proceedings of Windpower '85, San Francisco, CA, August 27-30, 1985, pages 171-176.
	Daniel M. Simmons, <u>Wind Power</u> , Noyes Data Corporation, 1975, pages 111-129.
	G. A. Smith, et al., <u>A Variable-Speed Constant-Frequency Induction Generator for Sub and Supersynchronous Operation</u> , Proceedings of the European Wind Energy Association Conference and Exhibition, Rome, Italy, Vol. 2, October 7-9, 1986, pages 51-55.
	René Spée, et al., <u>Adaptive Control Strategies for Variable-Speed Doubly-fed Wind Power Generation Systems</u> , February 10, 1994.
	William Stein, et al., <u>Development of an Experimental Hybrid Power System Incorporating a Variable Speed Diesel Generator</u> , Proceedings of Windpower '94, Minneapolis, Minnesota, May 1994, pages 211-219.
	M. Steinbuch, <u>Dynamic Modeling and Analysis of a Wind Turbine with Variable Speed</u> , Journal A, Vol. 27, No. 1, January 1986, pages 1-8.

INFORMATION DISCLOSURE CITATION

RECEIVED

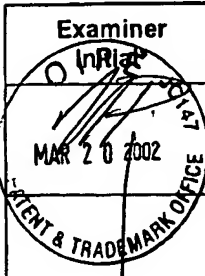
Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904
Applicants: Lorenz Feddersen et al.	MAR 22 2002
Filing Date: February 11, 2002	Group: 2834 3745 TECHNOLOGY CENTER R3700

Examiner Initial*	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	M. Steinbuch, <u>Optimal Multivariable Control of a Wind Turbine with Variable Speed</u> , Proceedings of the European Wind Energy Association Conference and Exhibition, Rome, Italy, Vol. 1, October 7-9, 1986, pages 623-628.
	C. Stork, et al., <u>Criteria for the Choice of a Variable Speed Strategy in the Design of a Single Bladed Wind Turbine</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 81-86.
	Hidehiko Sugimoto, et al., <u>A High Performance Control Method of a Voltage-Type PWM Converter</u> , PESC '88 Record, April 1988, pages 360-368.
	A. Swift, <u>The Effects of Turbulence on the Performance of Both Variable, and Constant Rotor Speed Wind Turbines</u> , Fourth ASME Wind Energy Symposium, pages 131-138.
	Isao Takahashi, et al., <u>A New Quick-Response and High-Efficiency Control Strategy of an Induction Motor</u> , IEEE Transactions on Industry Applications, Vol. IA-22, No. 5, September/October 1986, pages 820-827.
	Yifan Tang, et al., <u>A Flexible Active and Reactive Power Control Strategy for a Variable Speed Constant Frequency Generating System</u> , IEEE Transactions on Power Electronics, Vol. 10, No. 4, July 1995, pages 472-478.
	Torbjörn Thiringer, et al., <u>Power Control of a Fixed-Pitch Variable Speed Wind Turbine</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 87-93.
	K. Thiyagarajah, et al., <u>A High Switching Frequency IGBT PWM Rectifier/ Inverter System for AC Motor Drives Operating from Single Phase Supply</u> , IEEE, 1990, pages 663-671.
	Kjeld Thorborg, <u>Power Electronics</u> , Prentice Hall, 1988, pages 209-211.
	Kjeld Thorborg, <u>Power Electronics</u> , 2 nd Ed., S. T. Teknik, Sweden, 1985, pages 6:36-6:41.
	Hamid A. Toliyat, et al., <u>Analysis of a Concentrated Winding Induction Machine for Adjustable Speed Drive Applications: Part 2 (Motor Design and Performance)</u> , IEEE Transactions on Energy Conversion, Vol. 6, No. 4, December 1991, pages 684-692.
	David A. Torrey, et al., <u>A Variable-Speed Wind Turbine Based on a Direct-Drive Variable-Reluctance Generator</u> , Proceedings of Windpower '94, Minneapolis, Minnesota, May 1994, pages 513-522.
	Spiros Tsiolis, et al., <u>An Electrical System for Variable Speed Operation of Wind Turbines with Induction Generators</u> , Proceedings of Windpower '91, Palm Springs, CA, September 24-27, 1991, pages 170-177.
	W. A. Vachon, <u>The Effect of Controls on Life and Energy Production of the 34-m VAWT Test Bed</u> , Eighth ASME Wind Energy Symposium (D.E. Berg et al. eds), 1989, pages 209-218.
	W. A. Vachon, <u>Smart Control Algorithms for Operation of Variable-Speed Wind Turbines</u> , Ninth ASME Wind Energy Symposium (D.E. Berg ed.), Thirteenth Annual Energy-Sources Technology Conference and Exhibition, New Orleans, Louisiana, January 14-18, 1990, pages 191-199.

INFORMATION DISCLOSURE CITATION

RECEIVED

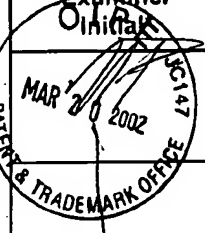


Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904
Applicants: Lorenz Feddersen et al.	MAR 22 2002
Filing Date: February 11, 2002	Group: 2834 3745 TECHNOLOGY CENTER R3700

Examiner	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	G. P. Valter, <u>A Comparison between Constant Speed and Variable Speed Conversion Systems for Windturbine Operation</u> , Proceedings of Windpower '85, San Francisco, CA, August 27-30, 1985, pages 592-597.
	Heinz W. van Der Broeck, et al., <u>A Comparative Investigation of a Three-Phase Induction Machine Drive with a Component Minimized Voltage-Fed Inverter under Different Control Options</u> , IEEE Transactions on Industry Applications, Vol. IA-20, No. 2, March/April 1984, pages 309-320.
	Jacobus D. van Wyk, et al., <u>Simulation and Experimental Study of a Reactively Loaded PWM Converter as a Fast Source of Reactive Power</u> , IEEE Transactions on Industry Applications, Vol. IA-22, No. 6, November/December 1986, pages 1082-1089.
	Jacobus D. van Wyk, et al., <u>A Study of a Wind Power Converter with Microcomputer Based Maximal Power Control Utilizing an Oversynchronous Electronic Scherblus Cascade</u> , IPEC- Tokyo '83, pages 766-777.
	C. Velayudhan, et al., <u>A Variable-Speed, Constant-Frequency Wind Power Generation Scheme Using a Slip-Ring Induction Generator</u> , 19 th Annual Intersociety Energy Conversion Engineering Conference, Vol. 4, San Francisco, CA, August 19-24, 1984, pages 2313-2318.
	Marco Venturini, <u>A New Sine Wave In, Sine Wave Out Conversion Technique Eliminates Reactive Elements</u> , Powercon 7., March 24-27, 1980, pages E3-1 - E3-15.
	Donato Vincenti, et al., <u>A PC-Based Pulse-Width Modulator for Static Converters</u> , IEEE, 1990, pages 57-71.
	W. Vollstedt, <u>Variable-Speed Wind Turbine Generator with Low Line Interactions</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 127-138.
	Otto Warneke, <u>Einsatz einer doppeltgespeisten Asynchronmaschine in der großen Windenergieanlage Growian</u> , Siemens-Energietechnik 5, Heft 6, 1983, pages 364-367.
	C. Watthanasarn, et al., <u>Analysis and DSP-Based Implementation of Modulation Algorithms for AC-AC Matrix Converters</u> , 2 IEEE Power Electronics Specialists Conference, June 21-27, 1996, pages 1053-1058.
	Claus H. Weigand, et al., <u>Variable Speed Wind Generation: Electrical Options and Power System Issues</u> , Proceedings of Windpower '94, Minneapolis, Minnesota, May 1994, pages 239-250.
	Eugenio Wernekinck, et al., <u>A High Frequency AC/DC Converter with Unity Power Factor and Minimum Harmonic Distortion</u> , IEEE Transactions on Power Electronics, Vol. 6, No. 3, July 1991, pages 364-370.
	James W. A. Wilson, <u>The Forced-Commutated Inverter as a Regenerative Rectifier</u> , IEEE Transactions on Industry Applications, Vol. IA-14, No. 4, July/August 1978, pages 335-340.
	Wind Energy Group, <u>Options for Variable Speed Operation of Horizontal Axis Wind Turbine Generators</u> , Crown, 1989.
	E. C. Woychik, et al., <u>Reducing the Costs of Wind Power: the Variable Speed Isosynchronous Generator</u> , Proceedings of Windpower '85, San Francisco, CA, August 27-30, 1985, pages 576-582.

INFORMATION DISCLOSURE CITATION

RECEIVED

Atty. Docket No.: 07917.0006-00000	Serial No.: 10/074,904
Applicants: Lorenz Feddersen et al.	MAR 22 2002
Filing Date: February 11, 2002	Group: 2834 3745 TECHNOLOGY CENTER R3700

Examiner Initials	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	Rusong Wu, et al., <u>Analysis of a PWM AC to DC Voltage Source Converter Under Predicted Current Control with Fixed Switching Frequency</u> , IEEE Transactions on Industry Applications, Vol. 27, No. 4, July/August, 1991, pages 756-764.
	Longya Xu, <u>Torque and Reactive Power Control of a Doubly Fed Induction Machine by Position Sensorless Scheme</u> , IEE Transactions on Insduty Applications, Vol. 31, No. 3 May/June 1995, pages 635-642.
	S. R. Yadavalli, et al., <u>A New Generation Scheme for Large Wind Energy Conversion Systems</u> , Eleventh Intersociety Energy Conversion Engineering Conference Proceedings, Vol. II, State Line, Nevada, September 12-17, 1976, pages 1761-1765.
	Mitsutoshi Yamamoto, et al., <u>Active and Reactive Power Control for Doubly-Fed Wound Rotor Induction Generator</u> , IEEE, 1990, pages 455-460.
	P. Zanotti, <u>A Converter System for the Gamma 60 Variable Speed Wind Turbine: Main Features and Expected Performances</u> , 21 st Meeting of Experts - Electrical Systems for Wind Turbines with Constant or Variable Speed, Göteborg, Denmark, October 7-8, 1991, pages 139-151.
	L. Zhang, et al., <u>A Matrix Converter Excited Doubly-Fed Induction Machine as Wind Power Generator</u> , IEE Power Electronics and Variable Speed Drives, Conference Publication No. 456, September 21-23, 1998, pages 532-537.
	L. Zhang, et al., <u>An Efficient Space Vector Modulation Algorithm for AC-AC Matrix Converters</u> , IEE Power Electronics and Variable Speed Drives, September 21-25, 1996, pages 108-113.
	L. Zhang, et al., <u>Analysis and Comparison of Control Techniques for AC-AC Matrix Converters</u> , 145 IEE Proceedings on Electronic Power Application, July 1998, pages 284-294.
	L. Zhang, et al., <u>Application of a Matrix Converter for the Power Control of a Variable-Speed Wind-Turbine Driving a Doubly-Fed Induction Generator</u> , 1997, pages 906-911.
	Donald S. Zinger, <u>Induction Motor Speed Control Using Tapped Stator Windings</u> .
	Phoivos D. Ziogas, et al., <u>Rectifier-Inverter Frequency Changers with Suppressed DC Link Components</u> , IEEE Transactions on Industry Applications, Vol. IA-22, No. 6, November/December 1986, pages 1027-1036.
Examiner 	Date Considered 7/14/2005
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449 Patent and Trademark Office - U.S. Department of Commerce	